

Patent Claims

1. A method for biometric user identification having the following steps

- 5 (1) Acquisition of a biometric record of the user and the respective spatial position of the biometric data relative to a reference position,
(2) Storage of the biometric record and the associated position data,
10 (3) Reading out of the biometric record and the associated position data of a user identification process preceding the current user identification process,
(4) Comparison of the biometric data currently
15 acquired and associated position data with the preceding biometric data and associated position data read out and rejection of the identification if the biometric data have a defined degree of correspondence and the position of the corresponding biometric data
20 corresponds within a defined tolerance range.

2. The method as claimed in claim 1,
characterized in that the tolerance range is less than
100 μm , preferably about 50 μm .

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3. The method as claimed in claim 1,
characterized in that a mean value of the positions of
a number of individual features of the biometric data
is in each case determined and the positions of the
30 mean values of two successive identification processes
thus formed are compared in step (4).

4. The method as claimed in claim 3,
characterized in that

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the tolerance range is less than 50 μm , preferably between 10 μm and 20 μm .

5. The method as claimed in one of claims 1 to 4,
5 characterized in that the biometric data are fingerprint data.

6. The method as claimed in claim 5,
characterized in that, as position data, the
10 coordinates of bifurcations or minuscules of the fingerprint on a contact area are determined.

7. The method as claimed in one of claims 1 to 6,
characterized in that, after an identification process
15 has ended, the stored data of the preceding identification process are deleted and overwritten by the data of the current identification process.

8. A device for biometric user identification,
20 exhibiting
a device (1) for acquiring a biometric record of the user and of the respective spatial positions of the data relative to a reference position,
a memory (3) for storing the biometric data and the
25 associated position data,
a comparison device (4) for comparing the biometric data and the associated position data of a current identification process with the biometric data and associated position data of a respective preceding
30 identification process and for refusing the identification if the biometric data compared have a defined degree of correspondence and the positions of the corresponding biometric data correspond within a defined tolerance range.

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9. The device as claimed in claim 8, characterized by an output device (6) for outputting the result of the user identification.

5 10. The device as claimed in claim 8 or 9, characterized in that the tolerance range is less than 100 μm , preferably about 50 μm .

10 11. The device as claimed in one of claims 8 to 10, characterized by a device (5) for calculating a mean value of the positions of a number of individual features of the biometric data and in which the comparison device (4) compares the positions of the mean values of corresponding features of successive
15 user identification processes.

12. The device as claimed in claim 11, characterized in that the tolerance range is less than 50 μm , preferably between 10 μm and 20 μm .
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13. The device as claimed in one of claims 8 to 12, characterized by a fingerprint sensor (1) for acquiring the fingerprint as biometric data and its position on a contact area (5) of the fingerprint sensor (1).
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14. The device as claimed in claim 13, characterized in that the fingerprint sensor (1) determines the coordinates of certain features of the fingerprint on the contact area (5).
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15. The device as claimed in claim 14, characterized in that

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the features of the fingerprint are branches or minuscules.

16. The use of the method as claimed in one of claims
5 1 to 7 or of the device as claimed in one of claims 8
to 15 for checking the access authorization for the use
of a mobile telephone or access to a computer network.

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